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footing  $A$  = area of foot Structural Design  
qnet Steel Beam Design: Moment  $M_n = F_y Z_x$   
 $M_a$  = allowable bending moment  $M_n$  = nominal moment strength  $\phi_b = 1.67$  = factor of safety for bending moment  $F_y$  = yield stress  $Z_x$  = plastic section modulus about neutral axis Spread Footing Design  
=  $q$  allowable - p footing  $q$

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the analysis and design of primary structural system. The attachment of non-structural elements is the responsibility of the architect or designer, unless specifically shown otherwise. The Engineer assumes no responsibility for work not a part of these calculations. When structural observation or field

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Chapter 6. Timber Engineering Formulas  
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46. Draw structural formulas for the following alcohols, and tell if each is

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primary, secondary, or tertiary: (a)

1-butanol (b) 2-butanol (c)

3,3-dimethyl-2-butanol (d)

3,3-dimethyl-1-butanol 47. Write the formula, and draw the structure, for each of the...

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